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19/64

Capt Gorman SP - Multiple Recovery

SAFSP

Background

In house studies

Crew management - Quick Reaction

Recovery techniques - 63

LMSC Proposal

Polaris work

P-41 Proposal

AD Hoc Study Group - Dr M & M

14-16 Oct 64

[redacted] SYS/OPNS (CIA) good job STAT

M-RV Exp

Multi recovery is routing with J Pl.

[redacted] mode gives some problems STAT

80 - 135 lbs wt

Payload - 20 - 33 lbs

System Design

LMSC

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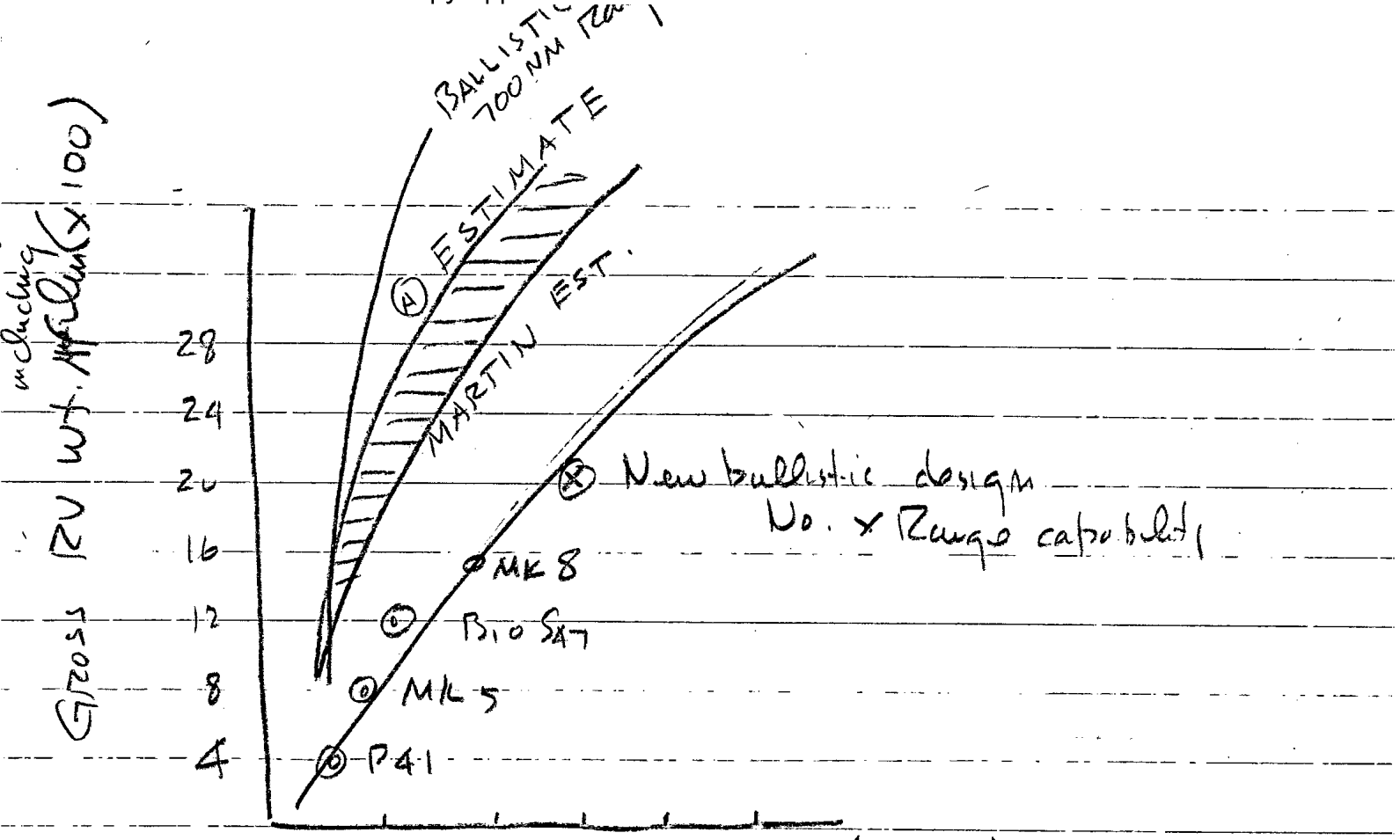

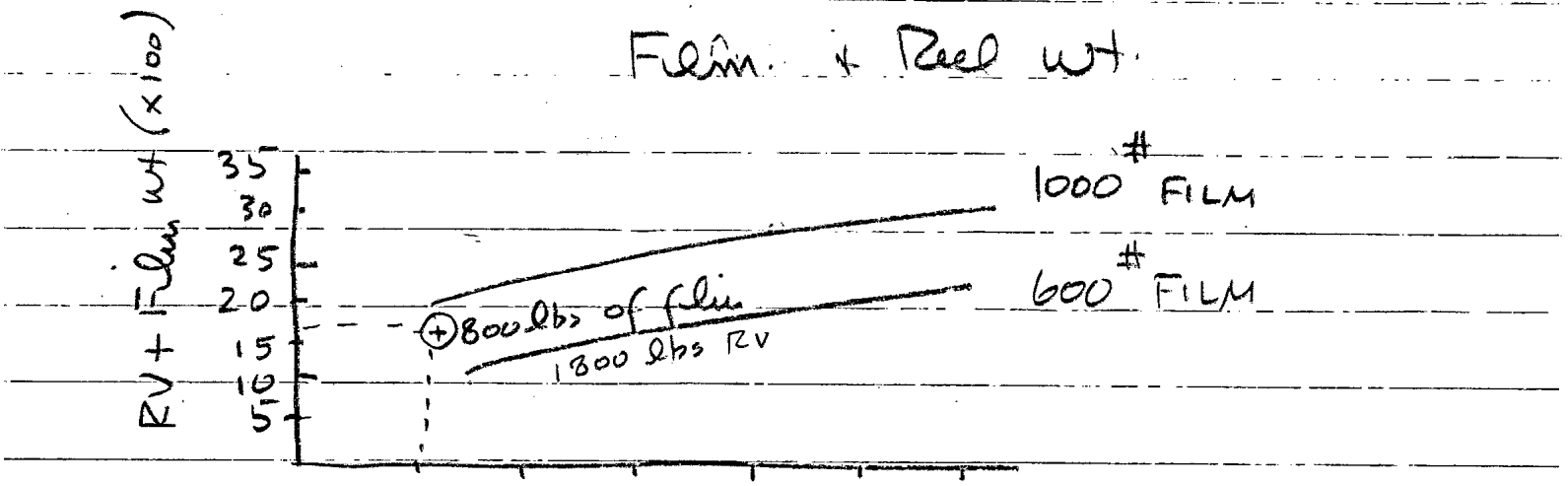

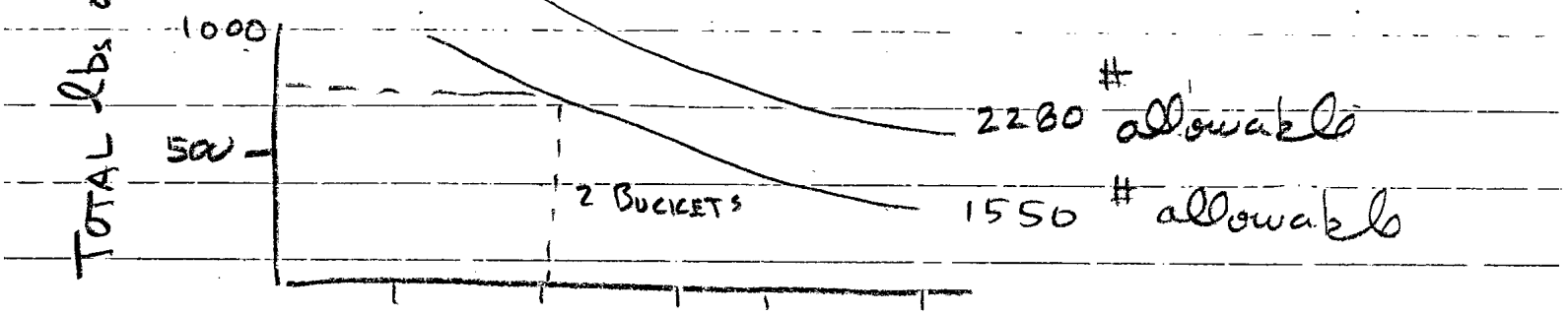

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12 buckets = 350 #/min

step function
drop to 0

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Multiple Recovery Vehicle

What does MRV Buy?

1. Quick return of data
   - Daily return
   - Recovery of Spec. Events
   - Post strike recovery
   - Early check of Sys. Ops.
2. Cost Effectiveness
   - 2 or more missions for 1 boost
   - Spread of Process Work Load
3. Increased probability of Getting
   - Part of Take
   - Vehicle malfunction
   - Vulnerability

What is MRV Impact?

- On specific System
  - G type System
    - Small penalty in wt + complexity
    - Big Operational Flex. Advantage
  - M type System
    - Some wt. + complexity
    - No significant gain on M
    - but large flexibility gain of

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On Recovery Force

Each day is recovery day more

May be small force increase

On Process Lab

Spreads Work Load

On NRO

Big Operl flexibility advantage

Penalties to be Paid ?

Weight

Like G system

Small wt penalty

5 small RV = 600# 1 Mk 5 = 350#

Like C system

6 medium RV's = 1300# greater than

1 large RV

3 med. RV's = 700# greater than

1 large RV

Check out penalty

Pad time

Some complexity

May be small increase in Recovery Force

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Operational Concepts

Crisis Management - Quick Reaction

System on Pad - 2 hour notice

- Pre-programmed targets
- 2 launch windows / day
- 30 day stand by capability

Then routine launch

First day / pass Recovery

- Camera processing
- Additional daily recovery

Fuel pass recovery

Additional life if not destroyed

Recovery

Cont. satellite cost + renewal costs

Few pass / first day + recovery

Make first day shoot down rec

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Conclusion

1. MRV - practical + desirable

2. Maj Advantages

New search system should consider multiple recovery.

" Not a technical problem. It's a requirements problem" Dr McMillan

COL PAUL WORTHMAN 12/5/64

"Satellite War Reserve Study"

Excellent report worth reviewing in detail.

PI Time must be reduced. Probable collocation of PI assets at processing sites (Oregon, Minnesotta, etc) Master PI Center must be next to the decision making Center - DC w the Cin, at Sea, "in the Rock" etc.

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Dr McMillan's concerns for detail,

1. Stress —
2. Obliquity —
3. Assymetry Problems —

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